

# Pediatric Quality Indicator 18 (PDI 18) Urinary Tract Infection Admission Rate

August 2017 Area-Level Indicator Type of Score: Rate

### Prepared by:

Agency for Healthcare Research and Quality U.S. Department of Health and Human Services www.qualityindicators.ahrq.gov

#### **DESCRIPTION**

Admissions with a principal diagnosis of urinary tract infection per 100,000 population, ages 3 months to 17 years. Excludes cases with kidney or urinary tract disorders, cases with a high- or intermediaterisk immunocompromised state (including hepatic failure and transplants), transfers from other institutions, and obstetric admissions.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report admissions per 100,000 population.]

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### **NUMERATOR**

Discharges, for patients ages 3 months through 17 years, with a principal ICD-9-CM diagnosis code for urinary tract infection.

## Urinary tract infection diagnosis codes: (ACSUTID)

59010	Ac Pyelonephritis Nos	59081	Pyelonephrit In Oth Dis
59011	Ac Pyelonephr W Med Necr	5909	Infection Of Kidney Nos
5902	Renal/perirenal Abscess	5950	Acute Cystitis
5903	Pyeloureteritis Cystica	5959	Cystitis Nos
59080	Pyelonephritis Nos	5990	<b>Urin Tract Infection Nos</b>

#### NUMERATOR EXCLUSIONS

Exclude cases:

- with any-listed ICD-9-CM diagnosis codes for kidney/urinary tract disorder
- with any-listed ICD-9-CM diagnosis codes for high-risk immunocompromised state
- with any-listed ICD-9-CM procedure codes for transplant (high-risk immunocompromised state procedures)
- with any-listed ICD-9-CM diagnosis codes for intermediate-risk immunocompromised state (including cirrhosis and including hepatic failure)
- transfer from a hospital (different facility)
- transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
- transfer from another health care facility
- neonates if age in days is missing
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

<u> Appendix F – High-Risk Immunocompromised States</u>

Appendix G – Intermediate-Risk Immunocompromised States

Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn

Appendix J – Admission Codes for Transfers

#### Kidney/urinary tract disorder diagnosis codes: (KIDNEY)

59000	Chr Pyelonephritis Nos	75317	Medullary Sponge Kidney
59001	Chr Pyeloneph W Med Necr	75319	Cystic Kidney Diseas Nec
59370	Vescouretrl Rflux Unspcf	75320	Obs Dfct Ren Plv&urt Nos
59371	Vesicoureteral Reflux Uniltrl	75321	Congen Obst Urtroply Jnc
59372	Vesicoureteral Reflux Npht Bltrl	75322	Cong Obst Ureteroves Jnc
59373	Vesicoureteral Reflux W Npht Nos	75323	Congenital Ureterocele
7530	Renal Agenesis	75329	Obst Def Ren Plv&urt Nec
75310	Cystic Kidney Diseas Nos	7533	kidney Anomaly Nec
75311	Congenital Renal Cyst	7534	ureteral Anomaly Nec
75312	Polycystic Kidney Nos	7535	exstrophy Of Urniary Bladder
75313	Polycyst Kid-autosom Dom	7536	atresia And Stenosis Of Urethra And
			Bladder Neck
75314	Polycyst Kid-autosom Rec	7538	cystourethral Anom Nec
75315	Renal Dysplasia	7539	urinary Anomaly Nos
75316	Medullary Cystic Kidney		

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## Cirrhosis diagnosis codes (HEPFA2D)

5712	Alcoholic Cirrhosis Of Liver	5716	Biliary Cirrhosis

5715 Cirrhosis Of Liver Without Mention Of Alcohol

## Hepatic failure diagnosis codes (HEPFA3D)

5722 Hepatic Coma 5724 Hepatorenal Syndrome

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#### **DENOMINATOR**

Population ages 3 months through 17 years in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

†The term "metropolitan area" (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). In addition, "area" could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area, or 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.